

Pavel Surynek | Curriculum Vitae (February 2018)

Personal Details

doc. RNDr. Pavel Surynek, Ph.D., Associate Professor

Czech Technical University, Faculty of Information Technology

Department of Applied Mathematics

Thákurova 9, 160 00 Praha 6, Czech Republic

Summary: cca 100 papers, 447 citations, h-index = 11 (source: Google Scholar)

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Education

07.2015 – 08.2016: **Habilitation (doc.), Artificial Intelligence**, Charles University, Czechia
Theoretical Computer Science, Artificial Intelligence

10.2005 – 09.2008 **Ph.D., Artificial Intelligence**, Charles University, Czechia
Theoretical Computer Science, Artificial Intelligence

09.2004 – 03.2005 **Doctor of Natural Sciences (RNDr.)**, Charles University, Czechia
Theoretical Computer Science

09.1998 – 01.2004 **M.Sc., Theoretical Computer Science**, Charles University, Czechia
Theoretical Computer Science

Employment History

02.2018 – present **Associate Professor**, Czech Technical University, Prague
Faculty of Information Technology, Department of Applied Mathematics

09.2016 – 02.2018 **Research Scientist**, Artificial Intelligence Research Center
National Institute of Advanced Industrial Science and Technology (AIST), Japan

09.2012 – 08.2016 **Assistant Professor**, Charles University, Faculty of Mathematics and Physics
Department of Theoretical Computer Science and Mathematical Logic

08.2011 – 09.2012 **JSPS Postdoctoral Fellow, Visiting Professor**, Kobe University,
Intelligent Informatics Laboratory, Japan

09.2006 – 07.2011 **Research Fellow/Assistant Professor**, Charles University,
Faculty of Mathematics and Physics

06.2004 – 06.2005 **Software Analyst** (position in industry), UniControls, a.s., Praha, Czechia

06.2000 – 06.2001 **Software Developer** (position in industry), Definity Systems, Benešov, Czechia

Significant Awards

- **Japan Society for the Promotion of Science Postdoctoral Fellowship 2011**
Award given by: Japan Society for the Promotion of Science, Japan, 2011.
- **Annual Award of the Bernard Bolzano Foundation 2008**
Competing work: Collection of 4 papers on Artificial Intelligence Planning
Award given by: Charles University, Faculty of Mathematics and Physics, Czechia, 2008.

Student Awards and Competitions

- **SVOČ 2016 first place for a bachelor thesis by Jakub Střelský under my supervision**
Competing work: Automated Generation of Realistic Terrain Using Machine Learning Techniques
Award given by: The Union of Czech Mathematicians and Physicists, 2016.
- **Dean's Award 2014 for a master thesis by Marika Ivanová under my supervision**
Competing work: Adversarial Cooperative Path-Finding
Award given by: Faculty of Mathematics and Physics, Charles University, 2014.
- **SVOČ 2014 second place for a master thesis by Marika Ivanová under my supervision**
Competing work: Adversarial Cooperative Path-Finding
Award given by: The Union of Czech Mathematicians and Physicists, 2014.

Special Courses

- **First International SAT/SMT Solver Summer School**, 2011, Cambridge, MA, USA
- **Transnational Technology Transfer Manager - Junior (TTM-J)**, 2011, Prague, Czechia
- **Third International Summer School on Constraint Programming**, 2007, Lloret de Mar, Spain

- **Second International Summer School on Constraint Programming**, 2006, Samos, Greece
- **ICAPS Summer School on Planning**, 2006, Cumbria, United Kingdom
- **First International Summer School on Constraint Programming**, 2005, Aquafreda di Maratea, Italy
 - Achieved highest score in the final exam

Selected Program Committee Membership

ICTAI-2018, IJCAI-ECAI 2018, ICAPS 2018, ICAART 2018, AAI 2018, AAI 2017, SoCS 2017, AAI 2016, ICAART 2015, AAMAS 2015, ECAI 2014, ICAART 2014, AAMAS 2014, ICAART 2013, IJCAI 2013, ICAART 2013, ICAART 2012, AAI 2011, ICAART 2011

Selected Journal Reviewing

Artificial Intelligence Journal (**AIJ**, 2017), Autonomous Robots (**AURO**, 2015), IEEE Transactions on Automation Science and Engineering (**T-ASE**, 2015), Robotics and Computer Integrated Manufacturing (**RCIM** 2016), International Journal of Computer Mathematics (**IJCM**, 2016), Theoretical Computer Science 2011 (**TAMC**, 2010), Constraints: An International Journal (2010)

Teaching and Supervision

Supervised Theses: 29 bachelor theses, 9 diploma theses, 1 supervision of Ph.D. thesis, 2 co-supervision of Ph.D. thesis

Selected Subjects:

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|---|--------------------------------------|
| • Introduction to Artificial Intelligence | lecture and seminar (2018 – present) |
| • Decision Procedures and Verification | lecture and seminar (2009 - 2015) |
| • Seminar on Artificial Intelligence | student seminar (2009 - 2015) |
| • Propositional and Predicate Logic | seminar (2009 - 2014) |
| • Seminar on Satisfiability | student seminar (2008 - 2014) |
| • Automata and Grammars | lecture and seminar (2006 - 2016) |

Invited Talks

- **Multi-robot Path Planning: a Graph Theoretical Approach**, Ben Gurion University of the Negev, March 2015, Israel.
- **Artificial Intelligence and Computer Driven Society**, University of Hyogo, May 2012, Kobe, Japan.
- **Redundancy Elimination in Highly Parallel Solutions of Motion Coordination Problems**, CSP Seminar at Graduate School of Maritime Sciences, October 2011, Kobe University, Japan.
- **Path-planning for Multiple Robots**, 2nd CSPSAT Seminar 2010, Information Science and Technology Center of the Kobe University, November 2010, Kobe University, Japan.

Academic Service

- **Open Days Department Representative**, Charles University, 2013, 2014, 2015
 - Organize and run department stand at faculty open day, explanation of faculty study programs to high school students intending to apply for enrolment
- **Department Webmaster**, Charles University, 2009 - 2015
 - Design and maintain department website: <http://ktiml.mff.cuni.cz>
 - Design of ad-hoc webs for conferences and seminars like: <http://ktiml.mff.cuni.cz/cjs2011>
- **Session Chair**
 - Serving as a session chair at various conferences like AAI, SoCS, ICTAI, ICAART
- **Faculty Committee Membership**, Charles University, 2012 - 2017
 - Committee member for the rank of Doctor of Natural Sciences (degree RNDr.)
 - Ph.D. committee member for the study branch Theoretical Computer Science

Research Interests

- **Major research interests** (at least one scientific publication for each topic)
 - Multi-agent path finding (MAPF), propositional satisfiability (SAT), classical planning, constraint programming (CSP), heuristic search, logic, algorithmic design, computational complexity, machine learning, computer vision